

PLANTS COLLECTED IN THE SANDWICH ISLANDS BY
THOMAS NUTTALL

HAWAIIAN PLANT STUDIES 85

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Introduction

Thomas Nuttall (1786-1859) made several botanical explorations. He collected in the eastern and southern United States, in the Rocky Mountains, Oregon, California, and the Sandwich Islands.

On Jan. 4, 1835 he arrived off Diamond Hill, Oahu, landed, and botanized in Nuuanu Valley. Soon he moved to Koloa, Kauai, where he spent a month. On March 26, 1835 he sailed from Honolulu toward the Columbia River.

At the end of Sept. 1835 he sailed from the Columbia toward Honolulu. He stayed for four months, and made a visit to the island of Hawaii, then left in Jan. 1836 for California.

Nuttall collected in the Hawaiian Islands at least 118 species, but it is worth noting that he collected no ferns. He published fundamental studies on the flora of eastern and of western North America, and a large percentage of his American novelties are still accepted as correct. Of his Hawaiian plants he published only five as new species, but four of these proved to be synonyms. Of his 118 Hawaiian specimens, he marked and named 62 as new species, but these were never published. He was unaware of several of the earlier publications that described Hawaiian plants. Numerous of his proposed Hawaiian species were unnecessary synonyms. His Hawaiian specimens are in the herbarium of the British Museum of Natural History, London.

Enumeration

Monocotyledones

Gramineae

Chrysopogon aciculatus (Retz.) Trin.

Echinochloa colonum (L.) Link, Ouau =Oahu,
as a new species.

Heteropogon contortus (L.) Beauv.

Cyperaceae

Cyperus javanicus Houtt. Owhyhee =Hawaii.

C. trachysanthos H. & A. Ouau.

Fimbristylis pycnocephala Hbd. Ouau.

- Gahnia Beecheyi Mann, Ouau.
Commelinaceae
Commelina diffusa Burn. f., as a new species.
Taccaceae
Tacca Leontopetaloides (L.) Ktze.,
T. oceanica Nutt.
Liliaceae
Cordyline terminalis (L.) Knuth, var. *Ti*(Schott)
J. G. Baker, as a new species.
Dianella sandwicensis H. & A.Wahoo.
Smilax sandwicensis Kunth, Wahoo.
Dicotyledones
Piperaceae
Peperomia leptostacya H. & A., Wahoo, as a new
species of *Piper*.
Peperomia Macraeana C. DC.
Peperomia membranacea H. & A., var. *membranacea*,
Wahoo, as a new species of *Piper*.
Peperomia sandwicensis Miq., Wahoo etc., two
specimens each as a different new species
of *Piper*.
Peperomia tetraphylla (Forst. f) H. & A., Wahoo.
var. *parvifolia* (C. DC.) Deg. & Deg., Wahoo,
as a new species of *Piper*.
Piper methysticum Forst. f., Wahoo, "kava."
Santalaceae
Santalum ellipticum Gaud., f. *ellipticum*,
Owhyhee, two specimens.
Santalum paniculatum H. & A., Owhyhee, as a new
species.
Santalum pyrularium Gray, Atoo (=*Kauai*), as a
new species.
Chenopodiaceae
Chenopodium oahuense(Meyen) Aellen, Wahoo, in
ruderatis, two specimens, each as a new species.
Amaranthaceae
Achyranthes splendens Mart. ex Moq., var.
rotundata Hbd., Wahoo, as a new species.
Amaranthus viridis L., Wahoo, in ruderatis,
as a new genus and species.
Charpentiera ovata Gaud., Wahoo.
Nyctaginaceae
Boerhavia diffusa L., Wahoo, in ruderatis.
Phytolaccaceae
Phytolacca sandwicensis Endl., var. *sandwicensis*,
Wahoo, as a new species.
Aizoaceae
Sesuvium Portulacastrum (L.) L., Wahoo, three
specimens, two of them as different new species.

- Portulacaceae
- Portulaca ?cyanosperma* Egler, Atooi.
- Capparaceae
- Cleome sandwicensis* Gray, Woahoo, plains.
- Cruciferae
- Lepidium o-waihiense* C. & S., Woahoo, in rupes
montosis, as a new species.
- Pittosporaceae
- Pittosporum terminalioides* Planch. ex Gray,
Wahoo, sylvis rupestris, as a new species.
- Saxifragaceae
- Broussaisia arguta* Gaud., f. *arguta*, Owhyhee,
C. Deal.
- Rosaceae
- Osteomeles anthyllidifolia* (Sm.) Lindl., Ouau.
- Leguminosae
- Caesalpinia Bonduc* (L.) Roxb., Atooi, as a new
species.
- Canavalia galeata* (Gaud.) Vogel, as a new genus.
- Cassia Gaudichaudi* H. & A., Wahoowest of the
Parri (= Nuuanu Pali).
- Sesbania tomentosa* H. & A., Owhyhee.
- Zygophyllaceae
- Tribulus Cistoides* L., Wahoo, in ruderatis,
as a new species.
- Rutaceae
- Pelea elliptica* (Gray) Hbd., Wahoo, sylvis,
as a new genus.
- Pelea*, two species in flower and leaf only,
as a new genus.
- Zanthoxylum dipetalum* Mann, Ouau.
- Euphorbiaceae
- Aleurites moluccana* (L.) Willd., two specimens,
one from Owhyhee, Deal, as a new species.
- Euphorbia celastroides* Boiss., var. *haupuana*
Sherff, Wahoo, Parri (= Nuuanu Pali), as a
new species.
- Euphorbia hirta* L., Wahoo, in montis.
- Phyllanthus sandwicensis* Muell. Arg.,
var. *sandwicensis*, Wahoo, Parri (= Nuuanu
Pali), as a new species.
- Anacardiaceae
- Rhus sandwicensis* Gray, Owhyhee, Dr. Deal
(= Diehl).
- Aquilifoliaceae
- Ilex anomala* H. & A., Wahoo.
- Celastraceae
- Perrottetia sandwicensis* Gray, Ouau, as a new
genus.

- Rhamnaceae
Colubrina asiatica (L.) Brongn., Attooi.
 Malvaceae
Abutilon incanum (Link) Sweet, Wahoo.
Hibiscus Kokio Hbd., ex Wawra, Wahoo, as a new species.
Hibiscus tiliaceus L., Wahoo, as a new species.
Hibiscus Youngianus Gaud. ex H. & A., Wahoo, in campis elatioribus, as a new species.
Sida sertum Nutt., holotype, used for garlands.
 Sterculiaceae
Waltheria indica L., Wahoo, two sheets, as a new species.
- Flacourtiaceae
Xylosma hawaiiense Seem., no. 6. Ouau.
- Myrtaceae
Metrosideros macropus H. & A., Ouau.
Metrosideros polymorpha Gaud., var. *polymorpha*, Wahoo, Parri (=Nuuanau Pali).
Metrosideros tremuloides (Heller) Knuth, Wahoo, as a new species.
- Araliaceae
Cheirodendron trigynum (Gaud.) Heller, Wahoo, in *sylvis*, as a new species.
- Ericaceae
Vaccinium calycinum Sm., f. *calycinum*.
Vaccinium dentatum Sm., Wahoo Parry (=Nuuanau Pali), rocks, as a new genus.
Vaccinium reticulatum Sm., as a new genus.
- Epacridaceae
Styphelia Tameiameiae (Cham.) F. Muell.
- Plumbaginaceae
Plumbago zeylanica L., Attooi.
- Apocynaceae
Alyxia olivaeformis Gaud.
- Convolvulaceae
Cuscuta sandwichiana Choisy, Attooi, as a new species.
- Hydrophyllaceae
Nama sandwicensis Gray, two sheets, from Attooi, and Wahoo, each as a new species.
- Boraginaceae
Heliotropium anomalum H. & A., var. *argenteum* Gray, Attooi, two sheets, each as a new species.
- Labiatae
Phyllostegia glabra (Gaud.) Benth., var. *Macraei* (Benth. in A. DC.) Sherff, Wahoo.
Phyllostegma grandiflora (Gaud.) Benth., Wahoo.

Phyllostegia hirsuta Benth., Wahoo, as a new species.

Phyllostegia parviflora (Gaud.) Benth., var. *parviflora*, in montis Ouau.

Stenogyne kaalae Wawra, var. *latisepala* Sheriff, Wahoo, rocks nr. the summit of the Parri (=Nuuanu Pali).

Solanaceae

Lycium sandwicense Gray, Atoo; Wahoo, as a new species.

Solanum nigrum L., Wahoo, as a new species.

Scrophulariaceae

Bacopa Monnieria (L.) Wettst., Wahoo, ad lit. maris (=by the seashore).

Gesneriaceae

Cyrtandra cordifolia Gaud., Woahoo, montes.

Cyrtandra Garnotiana Gaud. (?), two scraps, Wahoo.

Cyrtandra grandiflora Gaud., Wahoo.

Cyrtandra Lessoniana Gaud., var. *Lessoniana*, Wahoo, as a new species, two sheets.

Cyrtandra paludosa Gaud., Wahoo, "moa" of the islanders.

Plantaginaceae

Plantago princeps C. & S., var. *acaulis* Wawra, Wahoo, falls of a stream, as a new species.

Plantago princeps C. & S., var. *Queleniana* (Gaud.) Rock, Ouau.

Rubiaceae

Bobea elatior Gaud., Wahoo, in sylvis, two sheets.

Coprosma ernodeoides Gray, Owhyhee, F. Deal legit, as a new genus.

Coprosma foliosa Gray, Wahoo, as a new genus.

Gouldia terminalis (H. & A.) Hbd., not determined to the variety, arbor, Wahoo, two sheets, as two new species.

Hedychium acuminata (C. & S.) Steud., f. *Grayana* Fosb., nom. vern. "etaha." As a new genus.

Hedychium Remyi (Hbd.) Fosb., var. *Nuttallii* (Fosb.) Fosb., Ouau, probably an isotype.

Psychotria Fauriei (Levl.) Fosb., Wahoo, as a new genus.

Psychotria kaduana (C. & S.) Fosb., Wahoo, two sheets, each as a new species.

Psychotria longissima (Rock) St. John, Wahoo, as a new species.

Psychotria Mariniana (C. & S.) Fosb., Ouau, as a new species.

Lobeliaceae

Clermontia kakeana Meyen, (C. macrophylla Nutt.),
Wahoo.

Cyanea acuminata (Gaud.) Hbd., Wahoo.

Cyanea Grimesiana Gaud.

Rollandia lanceolata Gaud., Owhyhee.

Goodeniaceae

Scaevola X cerasifolia Skottsb., (S. pubescens
Nutt.), holotype, Wahoo.

Scaevola coriacea Nutt., holotype, Atooii.

Scaevola Gaudichaudiana Cham., Ouau, as a new
species.

Scaevola mollis H. & A., as a new species.

Scaevola Taccada (Gaertn.) Roxb., Atooii, in
montes, as a new species.

Compositae

Argyroxiphium sandwicense DC., Owhyhee, Volcano,
Mr. Deale (=Diehl).

Artemisia australis Less., Wahoo, Parre (=Nuuana
Pali), as a new genus.

Bidens asymmetrica (Lévl.) Sherff, Wahoo, as a
new species.

Gnaphalium sandwicensium Gaud., var. sandwicensium,
Ouau.

Lipochaeta connata (Gaud.) DC., Wahoo, as a
new genus.

Lipochaeta integrifolia (Nutt.) Gray, Atooii,
Wahoo, as a new genus.

Lipochaeta micrantha (Nutt.) Gray, (Schizophyllum
micranthum Nutt.), holotype, Atooii, in sylvis
opacis.

Tetramolopium tererrimum (Less.) Nees, Wahoo, in
rupibus Parry dictu (=Nuuana Pali).